



FANS BRO ERECTORS

Specialist in **Blending & Roasting Systems**

*Fabrication, Erection & Commissioning of
Equipment and Vessels For Chemical Plants,
Atomic Power Plants, Dairy
& Food Processing Industries.*



Address

11 D/E, Vimal Industrial Estate, Naik Pada,
Waliv, Vasai (East), Pin 401208

WebSite

www.fansbroerectors.in
www.industrialroaster.com
www.roastermachines.com

Phone

+91 9869205200, 8108151494, 9322244014

Email ID

sales@fansbroerectors.in

Cooling Blender Machine

Industrial Cooling Blender Machine is used to cool the roasted hot products from 90 degrees to 120 degrees Celsius with cooling arrangements to cool the roasted products. The Cooling Blender Machine is designed to cool the roasted products through a cooling water circulating jacket along with the cooling tower. Cooling blenders are ideal for inline production systems, used in the manufacturing of premix. The cooled products can be directly transferred to the packing section for packing. It improves online production of blended products as the by-product gets cooled really fast and exhibits consistency. Therefore, the result can be packed with immediate effect.



Applications of Cooling Blender Machine

Abrasives Agro Chemicals Animal Feed Cereals Coating Chemicals Talcum Powders	Flours Fungicide Treatments Gulab Jamun Premix Idli Premix Mouth Freshners Oleoresins Upma Premix	Powders Salts Snacks Spices Soybeans Soup Premix Vitamins	Detergents Dhokla Premix Explosives Fertilizers Fish Foods Starch	Pet Foods Pesticides Pickles Pharmaceutical Polymer Chips Sugar
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At Fans Bro Erectors, we have manufactured and supplied our machines to numerous reputed organizations all over India like:

- MTR Foods – Bangalore.
- ITC Ltd., CFTRI – Mysore.
- Suruchi Spices, Bhojwani Foods Saoji Masala – Nagpur.
- Everest masala - Mumbai /Umbergaon.
- VKL seasonings, Synthite Eastern Masala – Kerala.
- NILON, MERICO JAIN FOOD PARK NAVALPRABHA FOODS – Jalgaon.
- GOLDEE Spices, INDISH MASALE – Kanpur.
- HALDIRAM snacks - Noida, Nagpur.
- BAMBINO, Ganesh Grains Surya Masale, Telugu Pickles – Hyderabad.
- PRIYA FOODS – Vijayawada.
- FUTURE CONSUMERS - Mumbai / Tumkur / Sonipat / Indore.
- Dave / Lala / Agrawal Masale – Indore.

We have manufactured and exported our machines to numerous reputed organizations worldwide like:

- Veena Foods – USA.
- Sun Spices / Pappadew International - South Africa.
- Windsor Foods / Datar n Sons - UAE.
- Spicing lives / Lanka spices (Macronic) / Lanka Dairy – Sri Lanka.
- Adcon Services – Nigeria.
- Cast alloys – Philippines.
- Chief brand- Trinidad & Tobago.
- Lazzat – Mauritius.
- Bhatbhatni food product/ Pathibrata life care, Himalayan Tea – Nepal.



Why Us?

We offer the most qualitative products and services. Extending our services in the international arena, we stand apart from the other competitors as we have:

- Rich industrial experience of more than 45 years.
- Strong foothold in the Food **Processing Industry**.
- Ethical and valued business operations.
- High quality **Food Processing Industry** products.

Since 1975, Fans Bro Erectors, has become one of the most trusted and quality-driven manufacturers, exporters and suppliers of Industrial Roasting Machines, Industrial Screw Conveyor Machines, Industrial Cooling Blender Machines, Industrial Ribbon Blender Machines, Industrial Spice Roasting Machines, Grain Roasting Machines, Cereals Roasting Machines, Pulses / Dal Roasting Machines, Flour Roasting Machines, Seeds Roasting Machines, Dry Fruit / Nuts Roasting Machines.

Technical Details For Cooling Blender Machine

Name of equipment	Cooling Blender Machine
Volumetric Capacity	2500 Ltrs.
Product Density	0.5 – Free flowing food grade products
Shape	U cross sectional horizontal
Ribbons	Double helical type, with Side scrapper
Model	Standard model
MOC	Contact Parts: Stainless Steel 304 Non-contact Parts: Mild Steel
Finish	Internal: Hygienic finish for all inner contact parts External: Painted with 2 coats of epoxy base primer followed by 2 coats of Enamel paint.
Top cover	Single piece, conical shape Sliding type suitable for fume extraction system
Feeding	8" NB feeding nozzle on top cover through Screw conveyor
Outlet	Centrally located bottom discharge, hand operated 6" NB sliding type plate valve
Discharge height	At 600 – 650 mm from ground
Electrical Power	A.C, 440 Volts 3 Phase 50 Hz. 4 Wire at single point.



Electric Motor	TEFC, Non flame proof, Foot mounted, 1440 rpm, of suitable capacity "HINDUSTAN" or any Reputed make
Gear Box	Suitable capacity foot mounted, Worm Reduction / Inline Helical type of KISKO make
Drive unit	Enclosed in Mild Steel fabricated enclosure
Control panel	Powder coated fabricated from 18 swg. Mild Steel Sheet
Accessories	Power indicator lamps, Start Delta Starter, Motor 'ON-OFF' switch, Reverse Forward Switch, Overload relay, MCB etc. as per our standard practice.
Cooling Jacket	The cooling jacket is fabricated out of 2 mm thick Stainless Steel 304 grade sheet with a suitable size of 2 Nos. of coolant inlet & 2 Nos. Coolant outlet nozzles, with common Inlet / Outlet header, water circulating pump mounted on the machine.
Cooling System	The scope of our supply consists of FRP fabricated Reputed make & suitable capacity cooling tower along with Blower motor, water circulating pump, suitable capacity GI piping with necessary valves and fittings. The expected water supply & return GI piping shall be about 40 RMTRS.
Note:	The positioning of the cooling tower at the actual location & intermediate piping shall be installed on site by the Supplier
Optional attachments	
Inspection cum cleaning Platform	Inspection platforms are fabricated in a Mild Steel tubular structure with ladder railing, toe guard, and Aluminium chequered plate as per model selected by the customer.
Pneumatically operated knife edge gate valve	Centrally located bottom discharge pneumatically operated 6" NB Knife edge gate valve (EEE make) using pulse type solenoid valve for system atomization, suitable for paste type products & can be used for holding liquid at high temperature while container cleaning
Safety Grating	Safety grating shall be fabricated from Stainless Steel 304 grade flat and rods, with grit size 90 mm x 90 mm fitted with a bolting arrangement inside the machine container, with a limit switch having interlock with the machine drive system. i.e. if anyone opens the grating in running condition the motor will stop automatically.
Fume extraction system	Fume extraction system consisting of a conical top cover along with a 1.0 HP Blower mounted on cover with an intermediate male female type sliding pipe/duct. The cover will be fabricated out of Stainless Steel 18 swg. Sheet. The flanges The fume extraction system shall be of dairy fittings type for easy handling.

Standard Sizes For Cooling Blender Machine

22 Ltrs.	340 Ltrs.	1200 Ltrs.	4400 Ltrs.
75 Ltrs.	500 Ltrs.	1500 Ltrs.	5000 Ltrs.
125 Ltrs.	750 Ltrs.	2200 Ltrs.	8800 Ltrs.
240 Ltrs.	1000 Ltrs.	3500 Ltrs.	10000 Ltrs.



Exclusions

- 1) Any Civil, Structural, Electrical, Instrumental work required for system at site.
- 2) Supply and Installation of Utility equipment required for the system.
- 3) Electrical cables to our battery limits.
- 4) Fuel required to run the Heating system.
- 5) Any other work not specifically mentioned in our scope of supply.
- 6) The Input electrical connection at machines control panel, Air for pneumatic valves, make up the water connection point up to the cooling tower.
- 7) The internal electrical cable wiring from machine panel to machine drive unit / components required for the system will be provided by the supplier, considering installation of panels on the equipment.
- 8) The Supply and installation of discharge duct, from discharge point on fume extraction system is to be arranged by Purchaser.
- 9) Electrical cabling wiring to cooling tower blower along with flexible conduit pipe up to electrical control the panel installed on the machine is to be arranged by the purchaser.
- 10) Transportation, unloading, de crating, shifting, positioning, & Installation of various equipment / fabricated goods supplied by the supplier at their actual locations shall be arranged by the Purchaser.
- 11) The Provision of lift along with accessories for shifting the raw material to the top most floor of structural platform for storage shall be arranged by the Purchaser.
- 12) Regarding CIP system, customer shall provide more details, and exact technical requirement to clear the matter.
- 13) The costing towards extra works, mentioned in Exclusions will be quoted once we visit the site, and at the time of finalization of offer, as per your requirements



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 +919869205200  +918108151494

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